



**Final
Hazardous and Toxic Waste (HTW) Base Realignment
and Closure (BRAC) Cleanup Team (BCT)**



Meeting Minutes

February 1, 2019

BRAC Conference Room
Former Fort Ord, California

Agenda

Reference the handout titled "HTW BRAC Cleanup Team Meeting Agenda, Friday February 1, 2019 at 1:30 PM, Former Fort Ord, California."

1. Attendance

Last Name	First Name	Organization	By Phone
Anderson	Thor	Burleson Consulting	
Broadston	Melissa	Chenega supporting BRAC	
Clancy	Maeve	U.S. Environmental Protection Agency (USEPA)	X
Collins	Bill	U.S. Army Base Realignment and Closure (BRAC), Fort Ord Office	
Crane	Steve	KEMRON Environmental Services (KEMRON)	
Dillon	Holly	Ahtna Environmental, Inc. (Ahtna)	
Fenton	Jeff	Wood Environment & Infrastructure Solutions, Inc. (wood.)	X
Floyd	Bridget	U.S. Army Corps of Engineers (USACE)	
Gentry	Dana	USACE	
Gettmann	Kimberly	California Department of Toxic Substances Control (DTSC)	X
Ghigliotto	Tom	Chenega supporting BRAC	
Ginorio-Dean	Amber	USACE	
Kan	Alex	USACE	
Kowalski	Bart	Chenega supporting BRAC	
Lieberman	Derek	Ahtna	
Meakes	Charity	USACE	X
Sellinger	Amber	California Regional Water Quality Control Board, Central Coast Region (CCRWQCB)	
Soderberg	Sheila	CCRWQCB	X
Sterling	Steve	DTSC	X
Sumner	Donald	USACE	
Whipple	Jonathan	USACE	X
Wu	Min	DTSC	

2. BCT Minutes Status

Hazardous and Toxic Waste (HTW) Base Realignment and Closure (BRAC) Cleanup Team (BCT) meeting minutes are final through October 2018.

3. Community Outreach Update

The handout titled "U.S. Army Community Outreach Update" was reviewed. Additional discussion included:

- The 2017 community survey and 2017-2019 outreach activities will be published in short form for the BCT.
- The upcoming Community Involvement Mobile Workshop (CIW) tomorrow may have low attendance due to expected adverse weather conditions. Community comments will be collected at the CIW and comments that cannot be resolved at the CIW will be resolved at a later date.
- Mike Weaver's responses to comments are in progress or in review for a few documents.

4. Operable Unit 2 (OU2)

a. Groundwater Remedy/Monitoring–

The handout titled "Former Fort Ord Operable Unit 2 Data and Status" was reviewed. Additional discussion included:

- The transition period for the new Operable Unit 2 (OU2) groundwater treatment plant (GWTP) began October 12, 2018. The new OU2 GWTP statistics are now being reported. The OU2 GWTP has been online 99 percent of the time with minimal downtime for testing.
- Offline western extraction well EW-OU2-02-A had its failed pump replaced.
- The two OU2 monitoring wells MW-OU2-20-A and MW-OU2-41-A were decommissioned.
- The OU2 GWTP injection samples in January are pending laboratory analysis. The JV is collecting influent and injection samples, and Ahtna is collecting the granular activated carbon (GAC) vessel effluent samples.
- The radio signal for operating Sites 2/12 full time caused communications issues at the Ord Market network. The Sites 2/12 communications were taken offline to troubleshoot the issue because the OU2 groundwater treatment system should not be interfered with during the 21-day operational period.
- The Fourth Quarter 2018 Groundwater Monitoring event was conducted in December and preliminary results were received. The data was shared at the last HTW BCT meeting.
- Sampling included the OU2 perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) screening. Unfortunately, the laboratory compromised the PFOA/PFOS samples with high concentration samples that were collected from a different site (not at Fort Ord). The samples will have to be recollected in the First Quarter 2019 GWMP event.

b. Treated Water Reuse – No treated water was used recently. No treated water will be used at the new OU2 GWTP until after the Government accepts the GWTP from the JV.

c. Groundwater Treatment Plant Relocation – Construction of the new OU2 GWTP is in progress. The following items were discussed:

- The 2nd 21-day Ahtna operational period began today. During this period Ahtna will operate the system and optimize the system as needed.
- Performance testing is in progress.
- The western network is still not operational and being worked on.

- The driveway at the OU2 GWTP is still being constructed. Rebar will be installed and grading will be conducted soon in preparation for the concrete.
- A tour of the OU2 GWTP will be conducted today.

d. Landfills Operations and Maintenance (O&M) – The handout titled “Former Fort Ord Operable Unit 2 Landfills Data and Status” was reviewed. Additional discussion included:

- The Thermal Treatment Unit (TTU) will be turned online for the February 2 Community Involvement Mobile Workshop (CIW) bus tour so the heat signature above the stack is visible. The combustion temperature is approximately 1650 degrees.
- Methane concentrations at the TTU influent have been more stable recently, representing a good balance between Landfills methane generation and the rate of extraction.
- There have been a few recent rain events and no erosion issues have been identified. The winterization preparation best management practices have been holding up.

5. **Sites 2 and 12 (Sites 2/12)**

The handout titled “Former Fort Ord Sites 2 and 12 Data and Status” was reviewed. Additional discussion included:

- The Sites 2/12 GWTP was operating during business hours only from October 12, 2018 through January 23, 2019. The supervisory control and data acquisition (SCADA) communications had a temporary fix on January 24 with the old OU2 GWTP antenna restored and full time Sites 2/12 GWTP operations was started. Due to the Sites 2/12 communications link, there was an OU2 GWTP communications issue, and troubleshooting is in progress.
- It was proposed that the Sites 2/12 Soil Vapor Extraction (SVE) system be turned off for a rebound study, which includes turning off the one operating SVE well VE-12-09. During the rebound study, it is recommended to sample six soil gas probes around VE-12-09 to monitor for increasing COC concentrations in the First Quarter and Second Quarter 2019 soil gas sampling events. A tetrachloroethene (PCE) concentration trend chart for EW-12-08-180U, MW-12-20-180U, and VE-12-09 shows that there is no apparent correlation between groundwater and soil gas PCE concentrations. Therefore, there is no evidence that the SVE system is helping with groundwater cleanup at Sites 2/12. The rebound study will help determine if the groundwater continues to partition into soil gas and if soil gas remains at levels below the soil gas cleanup levels (SGCLs). The First Quarter 2019 event begins February 20. DTSC is ok with the rebound study. The CCRWQCB and USEPA will take a closer look at the data and respond by February 8.

6. **Operable Unit Carbon Tetrachloride Plume (OUCTP)**

a. Groundwater Remedy/Monitoring–

The handout titled “Former Fort Ord Operable Unit Carbon Tetrachloride Plume Data and Status” was reviewed. Additional discussion included:

- New well MW-BW-94-A did not recharge properly upon installation in September and at the time was decided that it was not a viable well for sampling. Replacement well MW-BW-94-AR was installed 45 feet away from MW-BW-94-A in January. During installation there were geologic peculiarities observed.
 - Usually the dune sand is fully saturated from the start of the A-Aquifer all the way down to the Salinas Valley Aquitard (SVA). However, at MW-BW-94-AR, the dune sand was saturated from 60 to 90 feet below ground surface and then was completely dry all the way to the SVA. The borehole was backfilled and screened in the saturated portion of the dune sand. Development showed that MW-BW-94-AR is adequately producing

- water and it will be profile sampled in the March First Quarter 2019 groundwater monitoring event.
- MW-BW-94-A and MW-BW-94-AR were both installed by hollow stem auger and logged by drill cuttings, so there was no continuous core to examine. No confining layer was observed during drilling of the two wells. It is possible there is a paleosol or thin clay layer that was missed during logging that is preventing groundwater from migrating downward to the SVA.
 - Due to this peculiarity, MW-BW-94-A was not decommissioned as scheduled and further investigation will be performed.
- Treatment is no longer needed at OUCTP EISB Deployment Area 3A, and the treatment system was decommissioned in January. All above ground piping, underground pumps from the ten extraction wells, drop pipes from the ten injection wells, and the CONEX treatment system were removed.
 - The CONEX was placed in front of the OU2 GWTP at the Landfills. The EISB CONEX treatment system was mothballed and is ready to be used again if needed.
 - The extraction wells and injections wells are now monitoring wells and the proposed monitoring schedule was provided for approval by the agencies. Due to the density of wells in such a small area, the Quality Assurance Project Plan (QAPP) decision criteria are applied loosely. There are approximately 25 wells in a ¼-acre area. Typically the injection wells of an EISB system are not used for groundwater monitoring because they are bio-fouled during the treatment process. The monitoring schedule will begin in the March First Quarter 2019 groundwater monitoring event. There is no HTW BCT meeting before the March 4 start date of the groundwater monitoring event. The agencies were requested to provide input in the next few weeks.
 - Groundwater monitoring well and soil gas probe decommissioning in Deployment Areas 1A and 1B was completed except for one probe.
 - The Lexington Court Deployment Area 1A source area soil gas probes were installed in the mid-2000s and the SVE system was removed approximately 12 years ago after it successfully removed carbon tetrachloride (CT) from the vadose zone.
 - One sub-slab soil gas probe, which was installed as part of a vapor intrusion study, will be decommissioned next week. The property owner, Community Homeless Solutions, agreed that the best approach is to cut the probe at the surface of the garage floor (currently sticks up about four inches, but located near a wall), and then fill the probe with cement and cap it.
 - The athletic field extraction and injection wells in Deployment Area 1B were pressure grouted, vaults removed, and excavations backfilled and compacted. Concrete was poured last week for the vault removed near the baseball field to match the existing sidewalk surface. The sod was placed last week for the vaults removed from the soccer field. The City of Marina approved the type of sod used to best match existing.
 - The Fourth Quarter 2018 Groundwater Monitoring was conducted in December and preliminary results were received. Results for newly installed monitoring wells were discussed:
 - MW-BW-93-A had a detection of CT below the ACL.
 - MW-BW-95-A had a CT detection above the ACL which will expand the plume to the north.
 - CT was not detected in the two Upper 180-Foot Aquifer wells.
 - Lower 180-Foot Aquifer well MW-BW-59-180 had a TCE detection of 8.6 µg/L, though TCE is not a COC for this aquifer. Supply wells in the Lower 180-Foot Aquifer have low detections of TCE. MW-BW-59-180 is located a few hundred feet upgradient of MW-

OU2-82-180, which is the Lower 180-Foot Aquifer well location with TCE concentrations typically above the ACL.

7. Basewide Range Assessment (BRA) and Lead Evaluation Status

The handout titled "BRA and Lead Evaluation Status" was reviewed. Additional discussion included:

a. Basewide Range Assessment (BRA) –

- The Draft Final Tech Memo for Units 1, 2, 7, 10, 33, and Watkins Gate Burn Area is in progress. Unit 33 has a small area with elevated lead concentrations, but the units will be balanced in the calculation and no further action will be recommended.
- The Draft Final Sampling Results Report for Units 25 and 28 was issued.
- The Final Sampling Results Report for Unit 31 was issued.
- The comprehensive BRA Report is in progress and will be provided to the agencies as a library reference document of the former range sites in the impact area.
- The Preliminary Draft report describing reconnaissance at BLM Area B north of the impact area will be issued soon.

b. Lead Evaluation at HA 18D and HA 23D –

The cleanup value is still being discussed between DTSC and the Office of Environmental Health Hazard Assessment (OEHHA). Kim Gettmann with DTSC will keep Alex Kan updated on the status of discussions. In the meantime, the Army will go forward with surveying the area of concern.

c. Erosion Control –

Site 39 and HAs are being monitored for erosion issues.

d. Landfills Soil Management –

A list, map, and pictures were provided of the 33 buildings that are being demolished in the impact area and BLM Area B. There are many types of buildings, some are canopy structures, decks, towers, latrines, concrete pads, and more traditional building structures. Some of the buildings have confirmed asbestos containing material (ACM). The buildings are primarily located in BLM Area B-3W (4 buildings) and impact area Units 1, 4, 5, 5A, 6, 9, 13, 18, 21, and 34. Once demolished the building material is brought to the OU2 Landfills Area E expansion and covered with poly sheeting to protect from stormwater runoff. Building with ACM is brought for disposal at an offsite location. It is assumed all paint contains lead. As of last week, seven buildings have been demolished. The iron triangle in the northern impact area will also be cleaned up. The stockpiled clean soil at the Landfills from the Marina Coast Water District pipeline project will be used as temporary cover once the project is completed.

e. Habitat Restoration – The handout titled "Site 39 Inland Ranges Habitat Restoration Status Update" was reviewed. Additional discussion included:

Planting season is in progress and was started in December. Planting was completed at HAs 26, 34, and 28. Planting in various HAs in areas to diversify the current population will begin next week. A surplus of 1,500 plants will be added to HA 26 in February. Plants are doing well in mulched areas with more water retention and better survivorship.

8. FFA Schedule

Status Update – The Federal Facility Agreement (FFA) schedule is provided to the agencies with the upcoming primary documents with the month the Draft and Draft Final versions will be issued. Draft versions have a 60-day review period and Draft Final versions have a 30-day review period. There are no primary documents currently.

Document Schedule – The handout titled “1 February 2019 HTW BCT Deliverable Schedule” was reviewed and near-term documents were identified.

- The OU2 Landfills Iso-Settlement Report was issued Draft January 4, and comments requested February 4. Amber Sellinger with the CCRWQCB had a question about the 2011 survey, and Derek Lieberman stated this was solely to determine estimated volume of waste from Site 39 and not to determine settlement. This will be made clearer in the report. Area E also has different settlement than the rest of the Landfills. Area E had demolition debris and the rest of the Landfills are residential debris in trenches. The CCRWQCB will submit comments by February 8.
- The Landfill QAPP Fort Ord Community Advisory Group (FOCAG) response to comments are pending approval from the EPA because Maeve Clancy was recently not working due to the partial government shutdown. Maeve will look at the comments and respond next week.
- The Groundwater QAPP was not sent out yet. The new OU2 GWTP sampling port identifications are being changed to conform to other GWTP port identifications. The Draft QAPP will be issued next week.

9. Action Items

The handout titled “HTW BCT 2019 Action Items” was reviewed. For action item #2 for the partial deletion of former Fort Ord sites from the NPL, USACE is working on the list and once completed will send to Bill Collins. FORA, ESCA, and the regulatory agencies will be given a chance to comment on the list which will be overlaid with munitions sites. The goal is to complete the partial deletion by June 2020, when FORA is completed.

10. Calendar Update

The calendar was reviewed for upcoming HTW BCT meeting dates. The March 13 HTW BCT meeting at 1:30 pm was confirmed. The Annual Habitat meeting is scheduled for March 27. The April HTW BCT meeting was tentatively scheduled for April 10 at 1:30 pm.